

Recombinant human CDK5 protein

Catalog Number: ATGP1835

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-292aa

UniProt No.

Q00535

NCBI Accession No.

NP_004926

Alternative Names

Cyclin-dependent kinase 5, PSSALRE

PRODUCT SPECIFICATION

Molecular Weight

35.8 kDa (316aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M urea

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CDK5, also known as cell division protein kinase 5, is a member of the cyclin-dependent kinase family. It is required for proper development of the brain and to be activated, CDK5 must associate with CDK5R1 or CDK5R2. Unlike other cyclin dependent kinases, it does not also require phosphorylation on the T loop so that binding with the activator is sufficient to activate the kinase. This protein is involved in the processes of neuronal maturation and migration, phosphorylating the key intracellular adaptor of the reelin signaling chain. Recombinant human CDK5 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSQMKEYEK LEKIGEGTYG TVFKAKNRET HEIVALKRVR LDDDDDEGVPS SALREICLLK
ELKHKNIVRL HDVLHSDKKL TLVFEFCDQD LKKYFDSCNG DLDPEIVKSF LFQLLKGLGF CHSRNVLHRD LKPQNLLINR
NGELKLADFG LARAFGIPVR CYSAEVVTLW YRPPDVLFGA KLYSTSIDMW SAGCIFAELA NAGRPLFPGN DVDDQLKRIF
RLLGTPTEEQ WPSMTKLPDY KPYPMPATT SLVNVVPKLN ATGRDLLQNL LKCNPVQRIS AEEALQHPYF SDFCPP

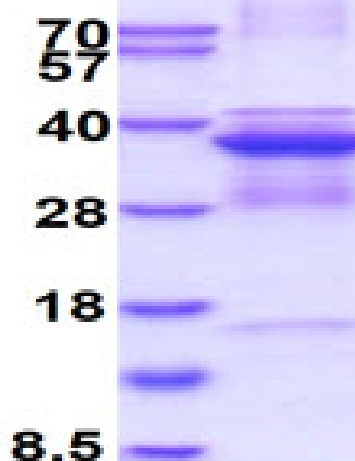
General References

Demetrick DJ. et al. (1994) Cytogenet Cell Genet. 66:72-74.
Meyerson M. et al. (1992) EMBO J. 11:2909-2917.

DATA

SDS-PAGE

(kDa)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)